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Jameco Part Number 206463

SPECIFICATION

for

60 WATTS

SWITCHING POWER SUPPLY

used for

DISK DRIVE

M/N: SNP-9F43-2

SKYNET ELECTRONIC

Prepared by :

Documentation Center

Checked by :

Representative :

LAST REV. NO.

9F43-110593-2



1.0 INTRODUCTIONS

The SNP-9F43-2 is a 60 Watts VDE B version power supply specially designed for memory subsystem application, which need an additional Fan for forced air cooling. It build with additional power source for fan and LED indicator to fit for necessary use.

Universal AC input, over voltage crowbar protection in main output, and overload hiccup mode protection on all outputs are perfectly designed to achieve best product performance.

2.0 INPUT SPECIFICATIONS

2.1 Input Voltage

The range of input voltage is from 90VAC to 264VAC.

2.2 Input frequency

The range of input frequency is from 47HZ to 63HZ.

2.3 Input current

The maximum input current is 1.2A at 115VAC or 0.6A at 230VAC.

2.4 Inrush current

The inrush current will not exceed 30A at 115VAC input or 60A at 230V AC input, cold start, 25°C.

3.0 OUTPUT SPECIFICATIONS

3.1 Load range

output	min. load	rated load	peak load	voltage accuracy
+5V	0A	3A		4.95V to 5.05V
+12V	0A	3.5A	5.5A(15Sec)	11.4V to 12.6V

At factory, all outputs in 60% rated load condition, the +5V output is set to between 4.95V and 5.05V, and +12V is checked to be within the specified voltage accuracy range.

* Total power less than 60W.

3.2 Ripple and noise

The peak to peak ripple and noise for each output is less than 1% of output voltage at rated load. Measuring is done by 15 MHz band width limited oscilloscope and terminated each output with a 0.47uF capacitor.

3.3 Line regulation

The line regulation for each output is less than + - 1% while measuring at rated load and + - 10% of input voltage changing.

3.4 Load regulation

The load regulation for +5V is less than + -1%, for +12V is less than + -4%, measuring is done by changing the measured output load + -40% from 60% rated load, and keep other output at 60% rated load.

4.0 GENERAL FEATURES

4.1 Efficiency

The efficiency is higher than 70% while measuring at nominal line and rated load.

4.2 Hold up time

The hold up time is longer than 20mS at 115VAC input and rated load, which is measured from the end of the last charging pulse to when the main output drops down to 95% output voltage.

4.3 Protection

For some reason the power supply fails to control itself, the build-in over voltage protection circuit will shut down the outputs to prevent damaging external circuits. The trip point of crowbar circuit is around 5.7V to 6.7V. The power supply will go into latch off mode against short circuit or over load conditions, and have to cycle the AC OFF and ON to make it restart.

5.0 ENVIRONMENT SPECIFICATIONS

5.1 Operating temperature

0°C to 50°C

5.2 Storage temperature

-40°C to 85°C

5.3 Altitude

Will operate properly at any altitude between 0 to 10000 ft.

5.4 Cooling

With force air

6.0 INTERNATIONAL STANDARDS

6.1 Safety standards

Designed to meet the following standards :

UL 1950 D3

CSA 22.2 NO. 234

VDE EN 60 950

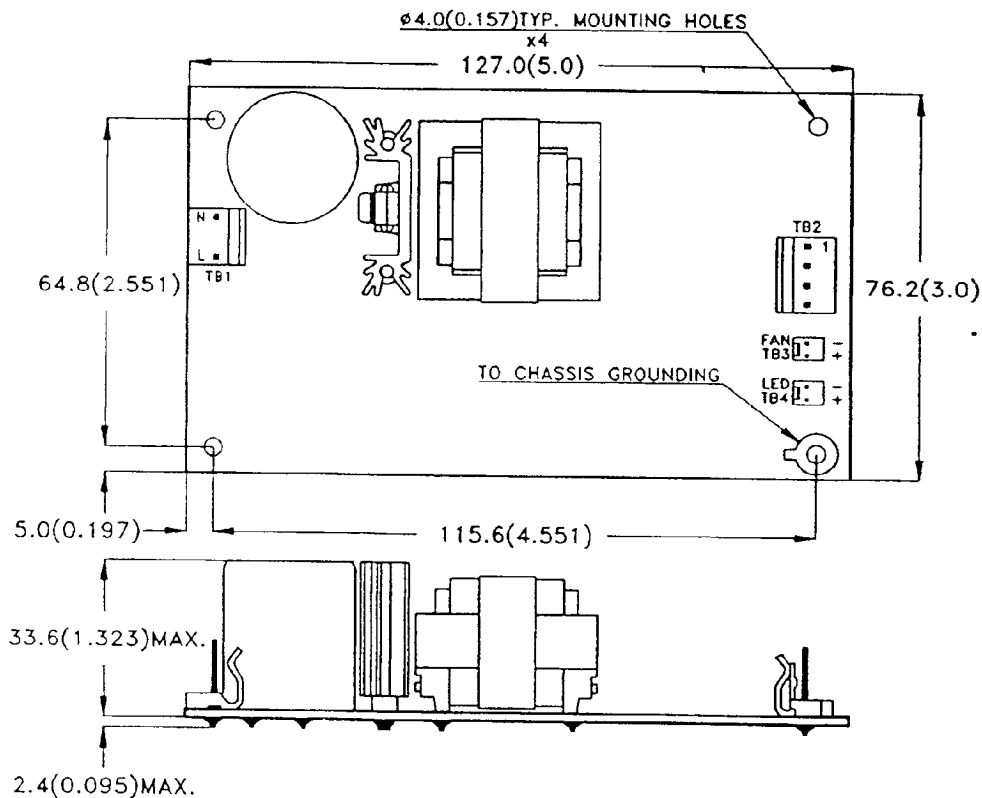
6.2 EMI standards

Designed to meet the following conducted limits :

FCC docket 20780 curve "B"

VDE 0871 curve "B"

7.0 MECHANICAL SPECIFICATION



7.1 Dimensions

Dimensions shown in mm (inch) as above. Tolerance specified is ± 0.4 mm.

7.2 Connectors

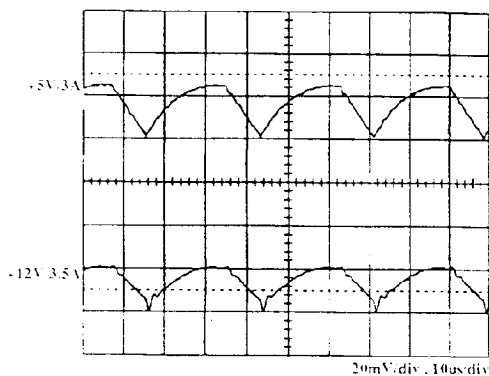
- TB1 : AC input, using Molex 5277-2 or equivalent.
- TB2 : DC output, using Molex 5273-4 or equivalent.
- TB3 : for FAN, using Molex 5045-2 or equivalent.
- TB4 : for LED, using Molex 5045-2 or equivalent.

7.3 DC output pin assignment

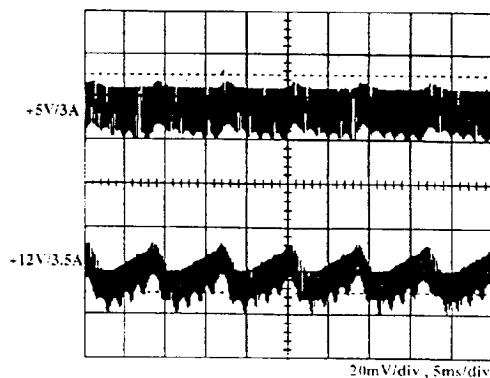
Pin	1	+12V
	2	GND
	3	GND
	4	+5V

8.0 PERFORMANCE

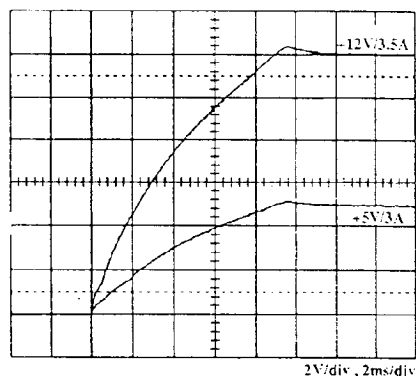
8.1 Switching frequency ripple



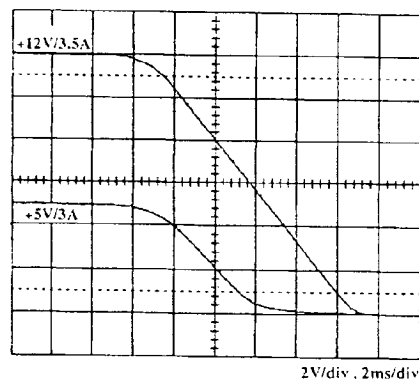
8.2 Line frequency ripple



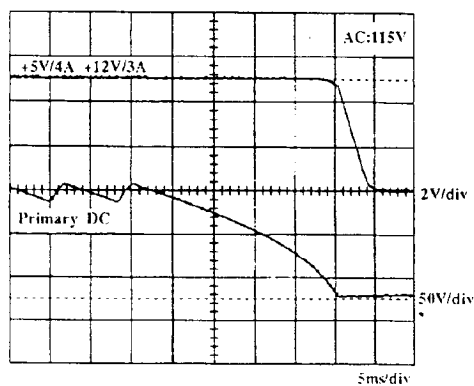
8.3 Output turn on wave form



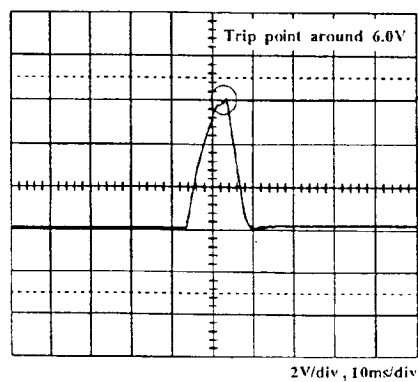
8.4 Output turn off wave form



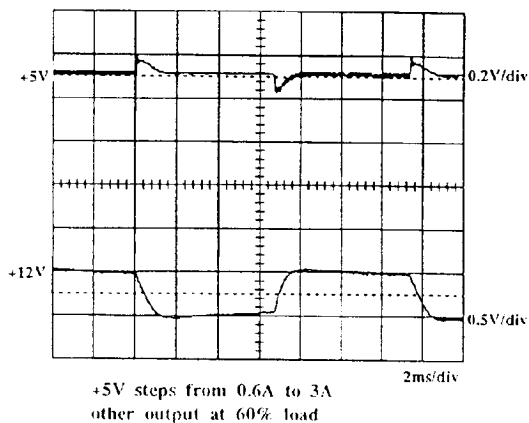
8.5 Hold-up time



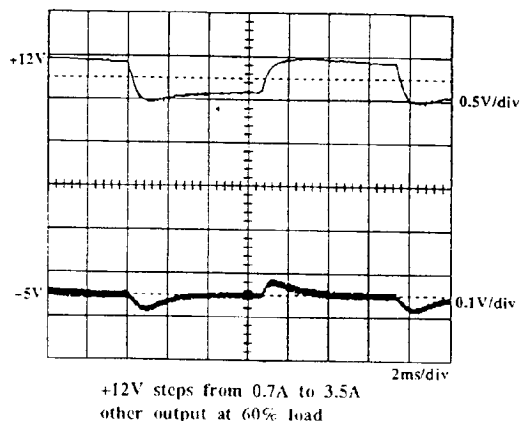
8.6 Over voltage protection



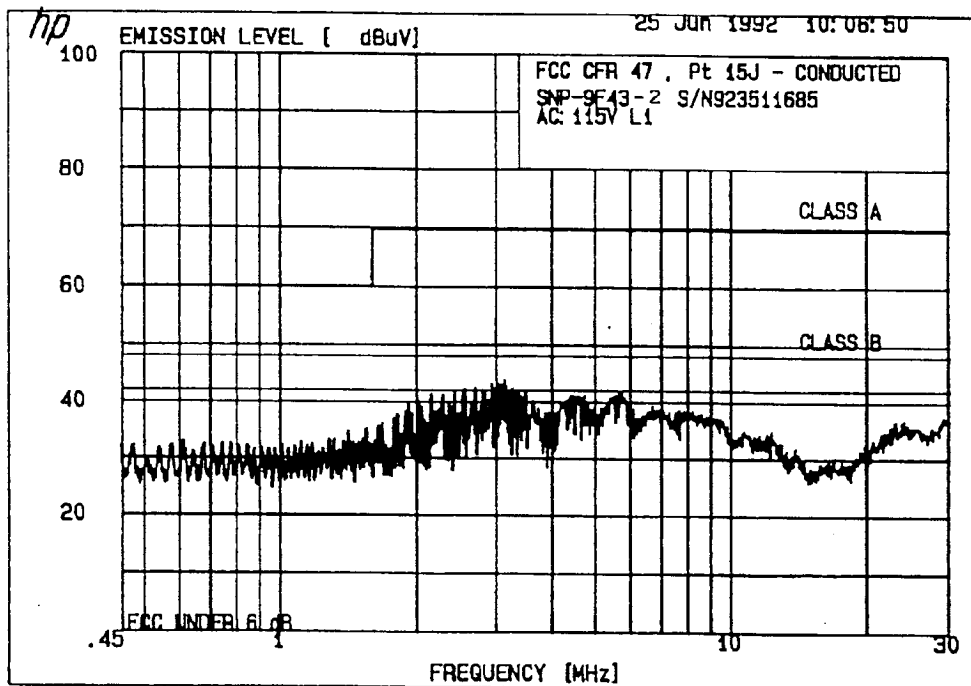
8.7 +5V step response



8.8 +12V step response



8.9 FCC B performance



8.10 VDE B performance

